

Recombinant Human PRSS3, His-tagged

Cat. No. PRSS3-15899H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PRSS3 protein, fused to His tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	81-304aa
Description	PRSS3 is a trypsinogen, which is a member of the trypsin family of serine proteases. This enzyme is expressed in the brain and pancreas and is resistant to common trypsin inhibitors. It is active on peptide linkages involving the carboxyl group of lysine or arginine. This gene is localized to the locus of T cell receptor beta variable orphans on chromosome 9. Four transcript variants encoding different isoforms have been described for this gene.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	26 kDa (247aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSIVGGYTC EENSLPYQVS LNSGSHFCGG SLISEQWVVS AAHCYKTRIQ VRLGEHNIKV LEGNEQFINA AKIIRHPKYN RDTLDNDIML IKLSSPAVIN ARVSTISLPT APPAAGTECL ISGWGNTLSF GADYPDELKC LDAPVLTQAE CKASYPGKIT NSMFCVGFLE GGDSCQRDS GGPVVCNGQL QGVVSWGHGC AWKNRPGVYT KVYNYVDWIK DTIAANS

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Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term. For long term storage, aliquot and store at at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	PRSS3 protease, serine, 3 [Homo sapiens]
Official Symbol	PRSS3
Synonyms	PRSS3; protease, serine, 3; protease, serine, 3 (mesotrypsin) , protease, serine, 4 (trypsin 4, brain) , PRSS4; trypsin-3; mesotrypsin; TRY3; TRY4; trypsin IV; trypsin III; trypsinogen 4; trypsinogen 5; trypsinogen IV; mesotrypsinogen; brain trypsinogen; pancreatic trypsinogen III; protease, serine, 4 (trypsin 4, brain); T9; MTG; PRSS4;
Gene ID	5646
mRNA Refseq	NM_007343
Protein Refseq	NP_031369
MIM	613578
UniProt ID	P35030
Chromosome Location	9p13

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Pathway

Alpha-defensins, organism-specific biosystem; Defensins, organism-specific biosystem; Immune System, organism-specific biosystem; Influenza A, organism-specific biosystem; Influenza A, conserved biosystem; Innate Immune System, organism-specific biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem;

Function

calcium ion binding; peptidase activity; protein binding; serine-type endopeptidase activity; serine-type peptidase activity;

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